

Rec'd  
3/13/06  
8:00am

needs by 3/15/06  
if possible

181996

**SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800**  
Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 3/10/06 Serial # 10/948,092 Priority Application Date 10/30/03

Your Name M. Lewis Examiner # 73172

AU 9899 Phone 292-1838 Room 5A30

In what format would you like your results? Paper is the default.  PAPER  DISK  EMAIL  
If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB  
Other:

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs  Nonpatent Literature  Teaching Refs   
Secondary Refs  Foreign Patents  Other

Is this a "Fast & Focused Search" request? (Circle One) YES NO

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1, 3-9 & 16-21

Fuse

Problem: See paragraphs 1-5

Solution: " " 6

Provide more space for circuits

To perform other functions

Staff Use Only

Searcher: Michael Lewis

Searcher Phone: 571-272-2663

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 3/14/06

Date Completed: 3/15/06

Searcher Prep/Rev Time: 191

Online Time: 90

Type of Search

Structure (#)

Bibliographic

Litigation

Fulltext

Patent Family

Other

Vendors

STN

Dialog

Questel/Orbit

Lexis-Nexis

WWW/Internet

Other

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[File 2] INSPEC 1898-2006/Jan W2  
 [File 6] NTIS 1964-2006/Jan W4  
 [File 8] EI Compendex(R) 1970-2006/Jan W4  
 [File 34] SciSearch(R) Cited Ref Sci 1990-2006/Jan W4  
 [File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec  
 [File 35] Dissertation Abs Online 1861-2006/Jan  
 [File 65] Inside Conferences 1993-2006/Jan W5  
 [File 94] JICST-EPlus 1985-2006/Nov W3  
 [File 144] Pascal 1973-2006/Jan W2  
 [File 23] CSA Technology Research Database 1963-2006/Jan  
 [File 103] Energy SciTec 1974-2006/Jan B1  
 [File 31] World Surface Coatings Abs 1976-2006/Jan  
 [File 95] TEME-Technology & Management 1989-2006/Jan W5  
 [File 57] Electronics & Communications Abstracts 1966-2006/Feb  
 [File 68] Solid State & Superconductivity Abstracts 1966-2006/Jan  
 [File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Jan  
 [File 293] Engineered Materials Abstracts 1966-2006/Jan  
 [File 239] MathSci 1940-2005/Feb  
 [File 256] TECINFO SOURCE 82-2005/DEC

Set Items Description  
 S1 4342650 S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR  
 PRINT?????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ?  
 OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT?????()CIRCUIT???  
 OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ?

S2 19857020 S SUBSTRAT???? OR MATERIAL???? OR SURFAC??? OR SUPPORT???? OR INSULAT???? OR  
 CONDUCT??? OR STRATUM? ?

S3 2683 S (FUSE? ? OR FUSING OR FUSABLE) (3N) (WINDOW? ? OR CAVIT???? OR OPEN????? OR  
 SPAC???? OR HOLE? ? OR ORIFIC???? OR OUTLET? ? OR PERFORAT????) OR FUSE()WINDOW(3N) (SUBSTRAT????  
 OR MATERIAL???? OR SURFAC??? OR SUPPORT???? OR INSULAT???? OR CONDUCT??? OR STRATUM? ?)

S4 212087 S FUSE? ? OR (FUSE? ? OR FUSING OR FUSABLE OR PROTECT?????) (3N) (CIRCUIT????? OR  
 CHIP? ? OR IC? ? OR INTEGRAT?????()CIRCUIT????) OR (SURG??? OR OVERVOLTAGE? ?) (3N) PROTECT???? OR  
 (BLOW???? OR BURN??? OR SHORT????) (3N) FUSE? ?

S5 1962579 S (FIRST???? OR SECOND????? OR ONE? ? OR BOTH OR TWO OR EACH OR PAIR????? OR  
 COUPL???? OR DUAL????? OR DIFFER???????) (3N) (END? ? OR ENDING OR BOUND????? OR POINT????? OR EDGE?  
 ? OR VOLTAGE? ? OR SOURCE? ? OR POWER???? OR TRANSISTOR????? OR DIODE? ? OR RESIST????? OR  
 INVERT?????)

S6 252716 S (ABOVE OR OVER OR ONTOP OR ON()TOP) (3N) (SUBSTRAT???? OR MATERIAL???? OR  
 SURFAC??? OR SUPPORT???? OR INSULAT???? OR CONDUCT??? OR STRATUM? ?)

S7 23 S (UNDER????? OR BENEATH OR BOTTOM OR SUPPORT?????) (3N) ((FUSE? ? OR FUSING OR  
 FUSABLE) (3N) (WINDOW? ? OR CAVIT???? OR OPEN????? OR SPAC???? OR HOLE? ? OR ORIFIC???? OR OUTLET?  
 ? OR PERFORAT????))

S8 0 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7  
 S9 456 S S1 AND S3 AND S4  
 S10 24 S S9 AND S5  
 S11 23 S S10 AND PY<=2003  
 S12 21 RD (unique items)

S13 1 S S12 AND (TRANSISTOR????? OR MOS? ? OR METAL()OXIDE()SEMICONDUCTOR? ? OR  
 METALOXIDE()SEMICONDUCTOR? ? OR NMOS? ? OR PMOS? ? OR METALOXIDE? ? OR METAL()OXIDE? ?)

S14 2 S S12 AND (DRAIN??? OR (CURRENT OR CONTROL????) (2N) ELECTRODE? ? OR SOURCE? ? OR  
 GATE? ?)

S15 0 S S12 AND (ANODE? ? OR CATHODE? ?)  
 S16 24 S S10 AND S2  
 S17 1 S S16 AND S6  
 S18 0 S S16 AND S7

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**S19** 1588 S S1 AND S4 AND S5

**S20** 12 S S19 AND ((SPACE? ? OR REGION???? OR AREA? ? OR SECTOR???? OR SEGMENT?????) (3N) (SAVING OR SAVE?? OR ECONOM????? OR INCREAS????? OR ENLARG????? OR MAXIM?????????))

**S21** 8 RD (unique items)  
**S22** 8 S S21 AND PY<=2003

**S23** 0 S S10 AND ((SPACE? ? OR REGION???? OR AREA? ? OR SECTOR???? OR SEGMENT?????) (3N) (SAVING OR SAVE?? OR ECONOM????? OR INCREAS????? OR ENLARG????? OR MAXIM????????? OR PROVI?????))

**S24** 4 S S9 AND ((SPACE? ? OR REGION???? OR AREA? ? OR SECTOR???? OR SEGMENT?????) (3N) (SAVING OR SAVE?? OR ECONOM????? OR INCREAS????? OR ENLARG????? OR MAXIM????????? OR PROVI?????))

**S25** 4 RD (unique items)  
**S26** 457 S S1 AND S3

**S27** 4 S S26 AND ((SPACE? ? OR REGION???? OR AREA? ? OR SECTOR???? OR SEGMENT?????) (3N) (SAVING OR SAVE?? OR ECONOM????? OR INCREAS????? OR ENLARG????? OR MAXIM????????? OR PROVI?????))

**S28** 2 S S14 NOT S13  
**S29** 1 S S17 NOT (S13 OR S14)  
**S30** 8 S S22 NOT (S13 OR S14 OR S17)  
**S31** 4 S S25 NOT (S13 OR S14 OR S17 OR S22)

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3/15/2006 12:23:03 PM

[File 344] Chinese Patents Abs Jan 1985-2006/Jan  
 [File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)  
 [File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607  
 [File 371] French Patents 1961-2002/BOPI 200209

## Set Items Description

S1 2072148 S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT?????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT?????()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ?

S2 9716298 S SUBSTRAT???? OR MATERIAL???? OR SURFAC??? OR SUPPORT???? OR INSULAT???? OR CONDUCT??? OR STRATUM? ?

S3 4131 S (FUSE? ? OR FUSING OR FUSABLE)(3N) (WINDOW? ? OR CAVIT???? OR OPEN????? OR SPAC???? OR HOLE? ? OR ORIFIC???? OR OUTLET? ? OR PERFORAT????) OR FUSE()WINDOW(3N) (SUBSTRAT???? OR MATERIAL???? OR SURFAC??? OR SUPPORT???? OR INSULAT???? OR CONDUCT??? OR STRATUM? ?)

S4 203808 S FUSE? ? OR (FUSE? ? OR FUSING OR FUSABLE OR PROTECT?????)(3N) (CIRCUIT????? OR CHIP? ? OR IC? ? OR INTEGRAT?????()CIRCUIT?????) OR (SURG??? OR OVERVOLTAGE? ?)(3N) PROTECT???? OR (BLOW???? OR BURN??? OR SHORT????)(3N) FUSE? ?

S5 2016659 S (FIRST???? OR SECOND????? OR ONE? ? OR BOTH OR TWO OR EACH OR PAIR????? OR COUPL???? OR DUAL????? OR DIFFER???????) (3N) (END? ? OR ENDING OR BOUND????? OR POINT????? OR EDGE? ? OR VOLTAGE? ? OR SOURCE? ? OR POWER????? OR TRANSISTOR????? OR DIODE? ? OR RESIST????? OR INVERT?????)

S6 277799 S (ABOVE OR OVER OR ONTOP OR ON()TOP)(3N) (SUBSTRAT???? OR MATERIAL???? OR SURFAC??? OR SUPPORT???? OR INSULAT???? OR CONDUCT??? OR STRATUM? ?)

S7 124 S (UNDER????? OR BENEATH OR BOTTOM OR SUPPORT?????)(3N) ((FUSE? ? OR FUSING OR FUSABLE)(3N) (WINDOW? ? OR CAVIT????? OR OPEN????? OR SPAC????? OR HOLE? ? OR ORIFIC????? OR OUTLET? ? OR PERFORAT?????))

S8 159774 S IC=(H01L-029/00 OR H01L-021/72 OR H01L-027/00 OR H01L-027/02 OR H01L-023/02 OR H01L-023/12 OR H01L-023/50 OR H01L-023/52 OR H01L-025/065 OR H01L-025/07 OR H01L-025/18 OR H01L-023/34 OR H05K-001/00 OR H05K-001/11 OR H05K-001/18 OR H05K-007/14)

S9 82458 S MC=(U13-D03A OR U13-E01 OR U11-C05G2A OR U11-D03B2 OR U11-D01A6 OR U14-A03B4 OR U14-A10 OR V04-Q02A2 OR U11-D01A3 OR U11-E01C OR U14-A10 OR U14-H03C3 OR V04-Q05 OR V04-R05D OR V04-T01C)

S10 11 S S1 AND S2 AND S3 AND S4 AND S5 AND S6

S11 10 S S10 AND PY<=2003

S12 869 S S1 AND S3 AND S4

S13 140 S S12 AND S8

S14 63 S S13 AND S9

S15 39 S S12 AND ((SPACE? ? OR REGION????? OR AREA? ? OR SECTOR????? OR SEGMENT?????)(3N) (SAVING OR SAVE?? OR ECONOM????? OR INCREAS????? OR ENLARG????? OR MAXIM????? OR PROVI?????))

S16 5 S S15 AND S8

S17 9 S S15 AND S9

S18 6 S S15 AND (TRANSISTOR????? OR MOS? ? OR METAL()OXIDE()SEMICONDUCTOR? ? OR METALOXIDE()SEMICONDUCTOR? ? OR NMOS? ? OR PMOS? ? OR METALOXIDE? ? OR METAL()OXIDE? ?)

S19 0 S S15 AND (DRAIN??? OR (CURRENT OR CONTROL?????)(2N) (ELECTRODE? ? OR SOURCE? ? OR GATE? ?))

S20 0 S S15 AND (ANODE? ? OR CATHODE? ?)

S21 3925 S S3 AND S4

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**S22** 155 S S21 AND ((SPACE? ? OR REGION???? OR AREA? ? OR SECTOR???? OR SEGMENT?????) (3N) (SAVING OR SAVE?? OR ECONOM????? OR INCREAS????? OR ENLARG????? OR MAXIM????????? OR PROVI?????))

**S23** 6 S S22 AND S8  
**S24** 10 S S22 AND S9  
**S25** 2 S S16 AND PY<=2003  
**S26** 4 S S17 AND PY<=2003  
**S27** 4 S S26 NOT S25  
**S28** 5 S S18 AND PY<=2003  
**S29** 5 S S28 NOT (S25 OR S26)  
**S30** 2 S S23 AND PY<=2003  
**S31** 0 S S30 NOT (S25 OR S26 OR S28)  
**S32** 5 S S24 AND PY<=2003  
**S33** 1 S S32 NOT (S25 OR S26 OR S28 OR S30)  
**S34** 10 S S11 NOT (S25 NOT S26 OR S28 OR S30 OR S32)

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(FILE 'HOME' ENTERED AT 13:27:20 ON 15 MAR 2006)

FILE 'CAPLUS' ENTERED AT 13:27:34 ON 15 MAR 2006

L1 420 SEA ABB=ON PLU=ON (FUSE OR FUSING OR FUSABLE) (3A) (WINDOW OR CAVIT##### OR OPEN##### OR SPAC##### OR HOLE OR ORIFIC##### OR OUTLET OR PERFORAT#####)

L2 678 SEA ABB=ON PLU=ON (FUSE OR FUSING OR FUSABLE) (3A) (CIRCUIT##### OR CHIP OR IC OR INTEGRAT##### (W)CIRCUIT#####)

L3 92800 SEA ABB=ON PLU=ON (SPAC##### OR REGION##### OR AREA OR SECTOR##### OR SEGMENT#####) (3A) (SAVING OR SAVE OR ECONOM##### OR INCREAS##### OR ENLARG##### OR MAXIM##### OR PROVI#####)

L4 2 SEA ABB=ON PLU=ON L1 AND L2 AND L3  
D L4 1-2 IBIB ABS

L5 111 SEA ABB=ON PLU=ON L3 AND (FUSE OR FUSABLE)

L6 36 SEA ABB=ON PLU=ON L5 AND (SEMICONDUCTOR OR SEMI CONDUCTOR OR CHIP OR MICROCHIP OR MICRO CHIP OR LSI OR VLSI)

L7 7 SEA ABB=ON PLU=ON L6 AND (TRANSISTOR OR NMOS OR PMOS OR METALOXIDE OR METAL OXIDE)

L8 4 SEA ABB=ON PLU=ON L6 AND (ANOD##### OR CATHOD##### OR ELECTROD#####)

L9 7 SEA ABB=ON PLU=ON L7 NOT L4  
D L9 IBIB ABS 1-7

L10 2 SEA ABB=ON PLU=ON L8 NOT (L4 OR L7)  
D L10 IBIB ABS 1-2

FILE 'STNGUIDE' ENTERED AT 13:37:07 ON 15 MAR 2006

((((semiconductor or semi-conductor or chip or microchip)and (fuse or fuses or fusible) and ((space or area or region or spacing or sector or segment)<near/3>(maximizing or economizing or economy or economical or increas???? or efficient or enlarge or enlarging or efficiency)))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2003)



((((fuse or fuses or fusible) and ((space or area or region or spacing or sector or segment)<near/3>(maximizing or economizing or economy or economical or increas???? or efficient or enlarge or enlarging or efficiency)))<in>metadata)) <and> (pyr >= 1950 <and> pyr <= 2003)